

WHAT IS CLAIMED IS:

1. An image reading method of reading an image of a transparent original, comprising the step of, in reading the image at a resolution other than a set resolution determined by a scan pitch of the transparent original and a pixel pitch of a line sensor, performing control of receiving the image at the set resolution in advance, correcting an image of a region which requires correction, and performing resolution conversion in order to obtain an image at a desired resolution.
2. The method according to claim 1, wherein the transparent original includes a developed photographic film.
3. An image reading apparatus for reading an image of a transparent original, comprising control means for, in reading the image at a resolution other than a set resolution determined by a scan pitch of the transparent original and a pixel pitch of a line sensor, performing control of receiving the image at the set resolution in advance, correcting an image of a region which requires correction, and performing resolution conversion in order to obtain an image at a desired resolution
4. The apparatus according to claim 3, wherein the transparent original includes a developed photographic

film.

5. An image reading method comprising:

the scan step of scanning a transparent original;

the light-emitting step of emitting light for

5 irradiating the transparent original held to be

scannable in the scan step;

the imaging step of forming the light having  
passed through the transparent original into an image  
by an optical system;

10 the light detection step of detecting the light  
having passed through the optical system;

the storage step of storing a light detection  
result in the light detection step;

the calculation step of comparing a stored  
15 content in the storage step; the determination step of  
determining whether a region requires correction, from  
the light detection result in the light detection step;

the correction step of correcting image data in  
the region which requires correction; and

20 the control step of, when image data is to be  
obtained at a second resolution other than a plurality  
of first detectable resolutions determined in the scan  
step and the light detection step, performing control  
of correcting the image data at one resolution out of  
25 the plurality of first resolutions in the correction  
step, and then converting the resolution into the

second resolution.

6. The method according to claim 5, wherein the one resolution out of the plurality of first resolutions is higher than and nearest to the second resolution.

5 7. The method according to claim 5, wherein the light-emitting step comprises emitting visible light and infrared light.

8. The method according to claim 5, wherein the transparent original includes a developed photographic  
10 film.

9. An image reading apparatus comprising:  
scan means for scanning a transparent original;  
light-emitting means for emitting light for  
irradiating the transparent original held to be  
15 scannable by said scan means; imaging means for forming the light having passed through the transparent original into an image by an optical system;

light detection means for detecting the light having passed through the optical system;

20 storage means for storing a light detection result by said light detection means;

calculation means for comparing a stored content in said storage means;

determination means for determining whether a  
25 region requires correction, from the light detection result by said light detection means; correction means

for correcting image data in the region which requires correction; and

control means for, when image data is to be obtained at a second resolution other than a plurality of first detectable resolutions determined by said scan means and said light detection means, performing control of correcting the image data at one resolution out of the plurality of first resolutions by said correction means, and then converting the resolution into the second resolution.

10. The apparatus according to claim 9, wherein the one resolution out of the plurality of first resolutions is higher than and nearest to the second resolution.

11. The apparatus according to claim 9, wherein said light-emitting means emits visible light and infrared light.

12. The apparatus according to claim 9, wherein the transparent original includes a developed photographic film.

13. A storage medium which stores a control program for controlling an image reading apparatus for reading an image of a transparent original, and is readable by information reading means, wherein the control program comprises a control module for, in reading the image at a resolution other than a set resolution determined by

a scan pitch of the transparent original and a pixel pitch of a line sensor, performing control of receiving the image at the set resolution in advance, correcting an image of a region which requires correction, and  
5 performing resolution conversion in order to obtain an image at a desired resolution.

14. The medium according to claim 13, wherein the transparent original includes a developed photographic film.

10 15. A storage medium which stores a control program for controlling an image reading apparatus for reading an image of a transparent original, and is readable by information reading means, wherein the control program comprises:

15 a scan module for scanning a transparent original;

a light-emitting module for emitting light for irradiating the transparent original held to be scannable;

20 an imaging module for forming the light having passed through the transparent original into an image by an optical system;

a light detection module for detecting the light having passed through the optical system;

25 a storage module for storing a light detection result by the light detection module;

a calculation module for comparing a stored content in the storage module;

a determination module for determining whether a region requires correction, from the light detection  
5 result by the light detection module;

a correction module for correcting image data in the region which requires correction; and

a control module for, when image data is to be obtained at a second resolution other than a plurality  
10 of first detectable resolutions determined by the scan module and the light detection module, performing control of correcting the image data at one resolution out of the plurality of first resolutions by the correction module, and then converting the resolution  
15 into the second resolution.

16. The medium according to claim 15, wherein the one resolution out of the plurality of first resolutions is higher than and nearest to the second resolution.

17. The medium according to claim 15, wherein the  
20 light-emitting means emits visible light and infrared light.

18. The medium according to claim 15, wherein the transparent original includes a developed photographic film.

25 19. The medium according to claim 13, wherein the storage medium includes a floppy disk.

20. The medium according to claim 15, wherein the storage medium includes a floppy disk.

21. The medium according to claim 13, wherein the storage medium includes a hard disk.

5 22. The medium according to claim 15, wherein the storage medium includes a hard disk.

23. The medium according to claim 13, wherein the storage medium includes an optical disk.

24. The medium according to claim 15, wherein the  
10 storage medium includes an optical disk.

25. The medium according to claim 13, wherein the storage medium includes a magneto-optical disk.

26. The medium according to claim 15, wherein the storage medium includes a magneto-optical disk.

15 27. The medium according to claim 13, wherein the storage medium includes a CD-ROM (Compact Disk Read Only Memory).

28. The medium according to claim 15, wherein the storage medium includes a CD-ROM (Compact Disk Read  
20 Only Memory).

29. The medium according to claim 13, wherein the storage medium includes a CD-R (Compact Disk Recordable).

30. The medium according to claim 15, wherein the  
25 storage medium includes a CD-R (Compact Disk Recordable).

31. The medium according to claim 13, wherein the storage medium includes a magnetic tape.
32. The medium according to claim 15, wherein the storage medium includes a magnetic tape.
- 5 33. The medium according to claim 13, wherein the storage medium includes a nonvolatile memory card.
34. The medium according to claim 15, wherein the storage medium includes a nonvolatile memory card.
35. The medium according to claim 13, wherein the  
10 storage medium includes a ROM (Read Only Memory) chip.
36. The medium according to claim 15, wherein the storage medium includes a ROM (Read Only Memory) chip.